

Fig. 1

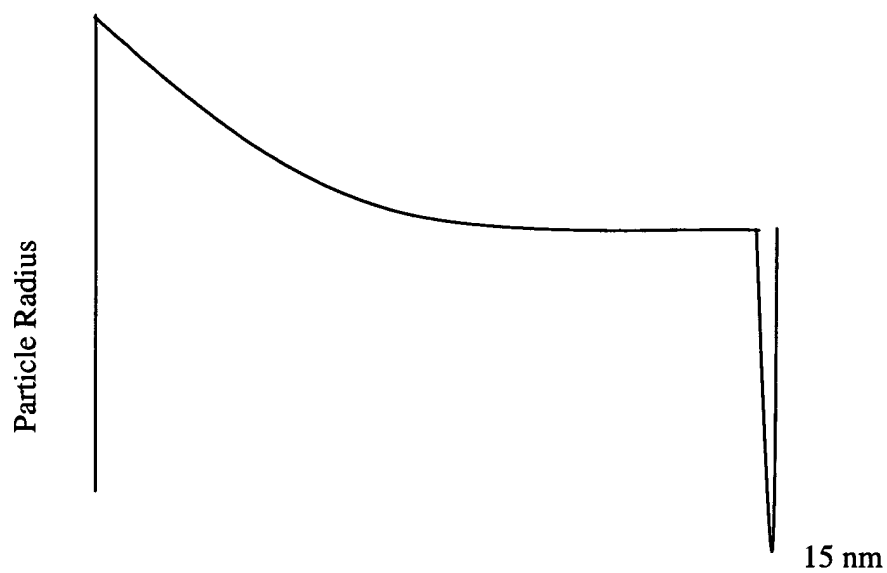


Fig. 3

Interaction Energy Between Two Coated Magnetite Spheres $s/a = 0.1$
(Aligned and Touching), in eV

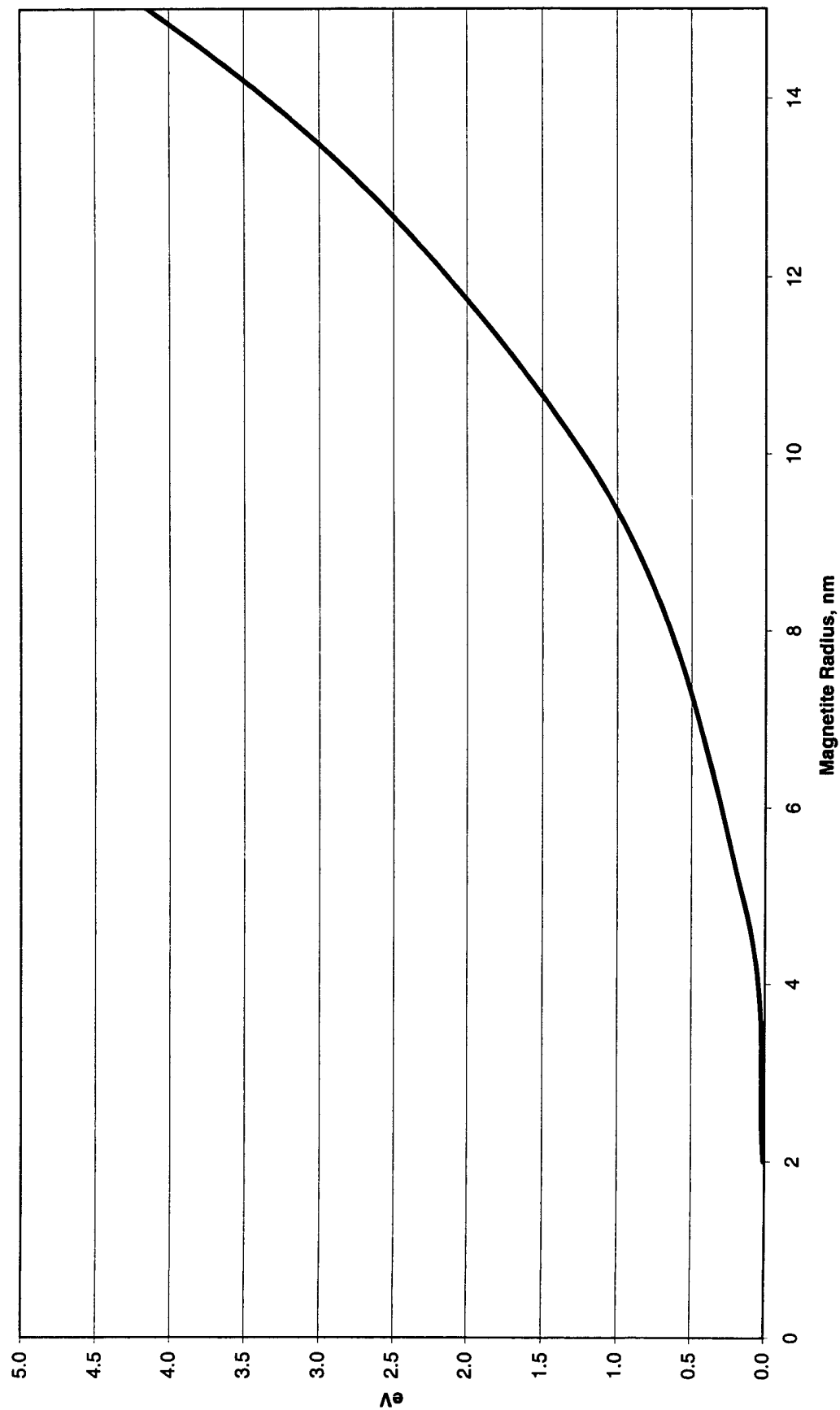


Fig. 2A

**Number of 1 eV Bonds per Particle Pair Needed to Equal their
Repulsive Force when 10nm dia Magnetite Core is Used with a Thick Coating**

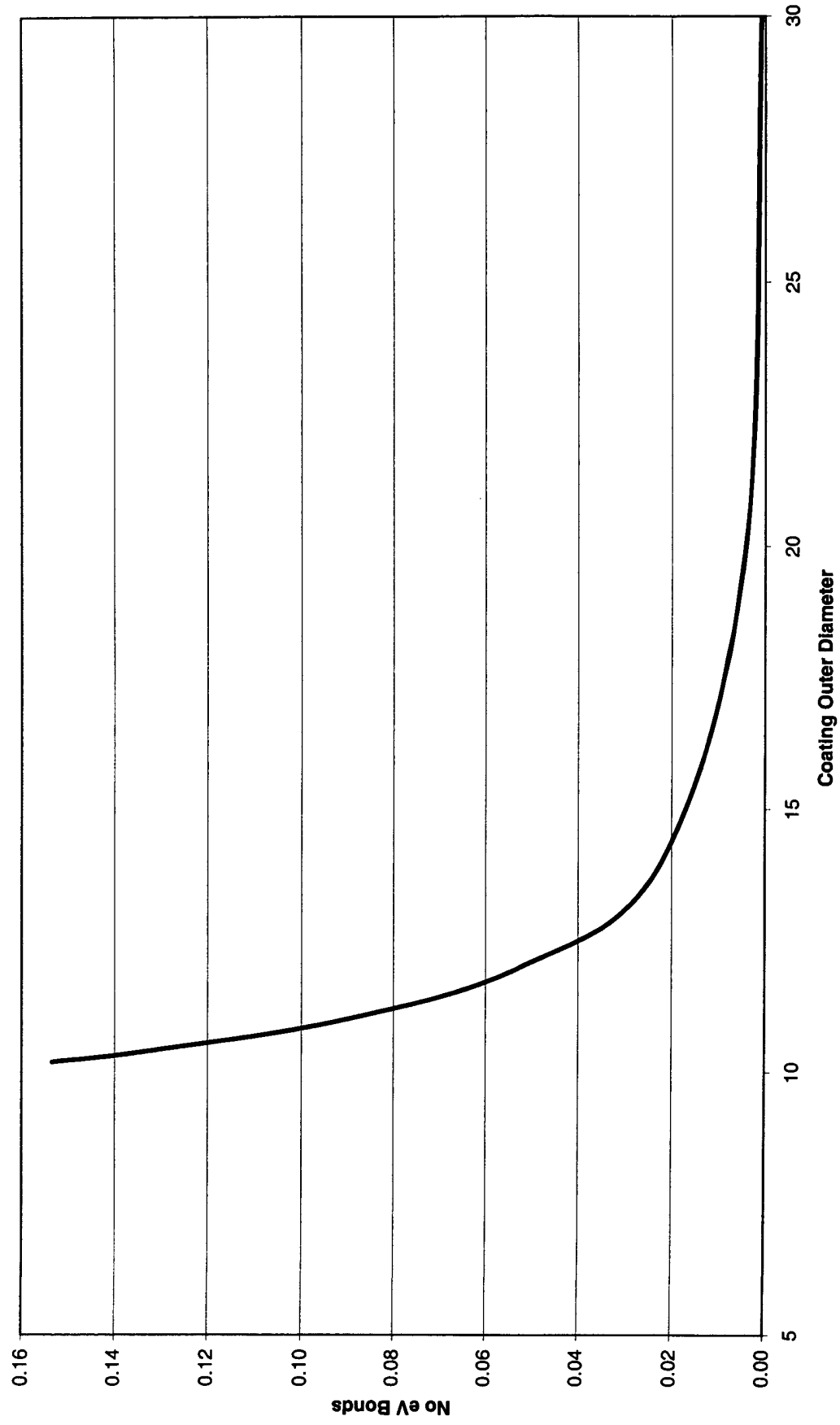


Fig. 2B

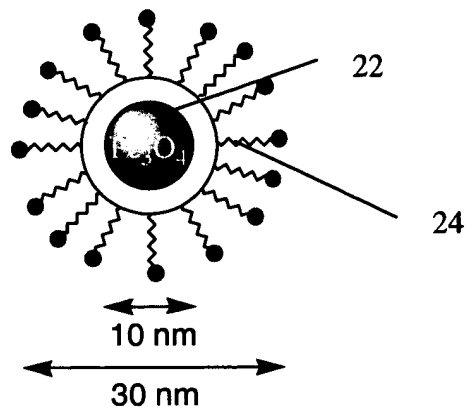


Fig. 4

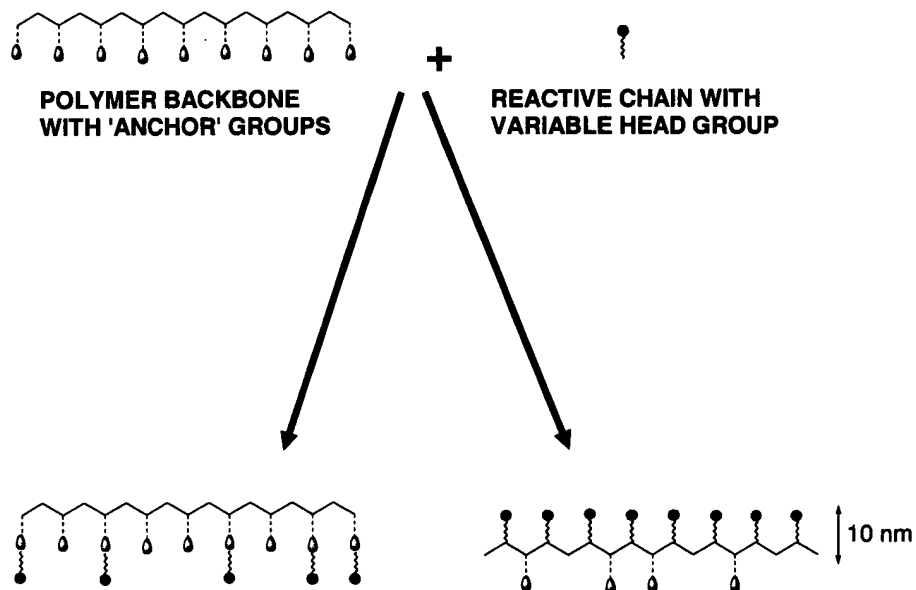


Fig. 5

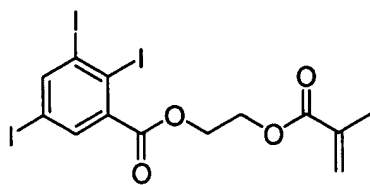


Fig. 6A

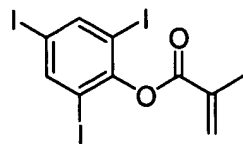


Fig. 6B

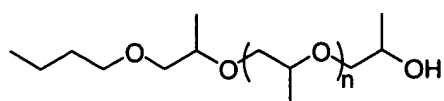
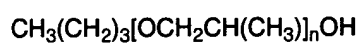


Fig. 7A

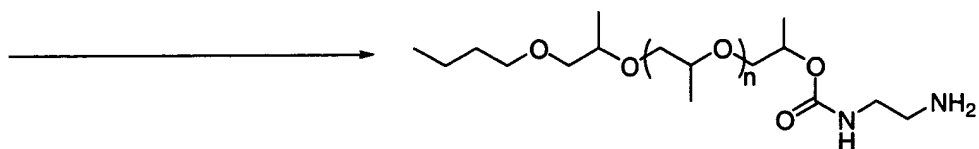


Fig. 7B

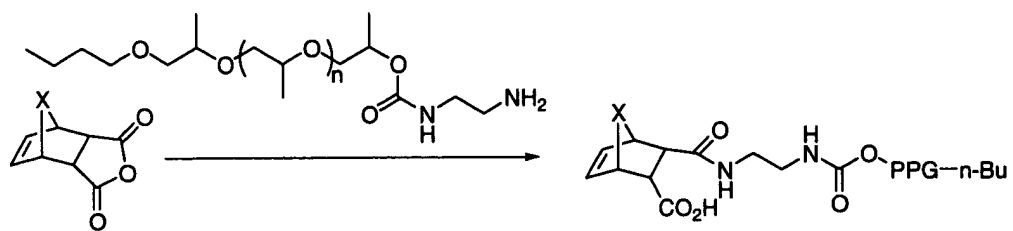


Fig. 8A

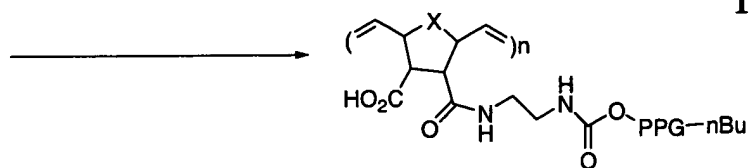


Fig. 8B

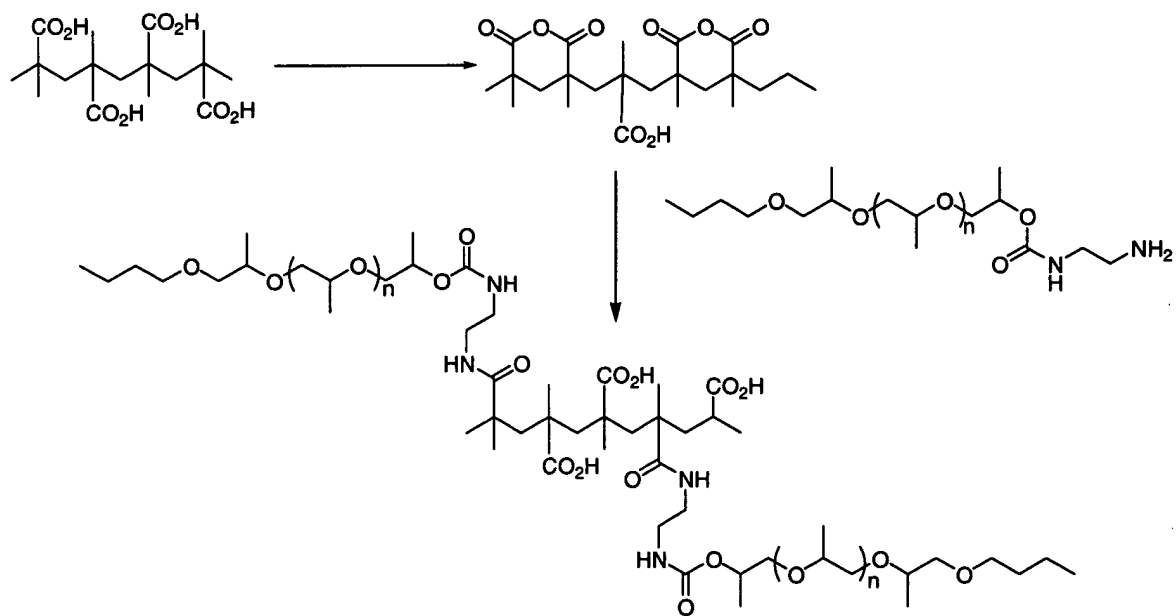


Fig. 9

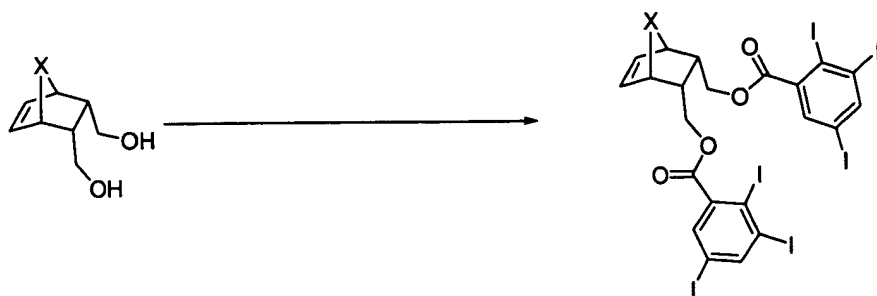


Fig. 10A

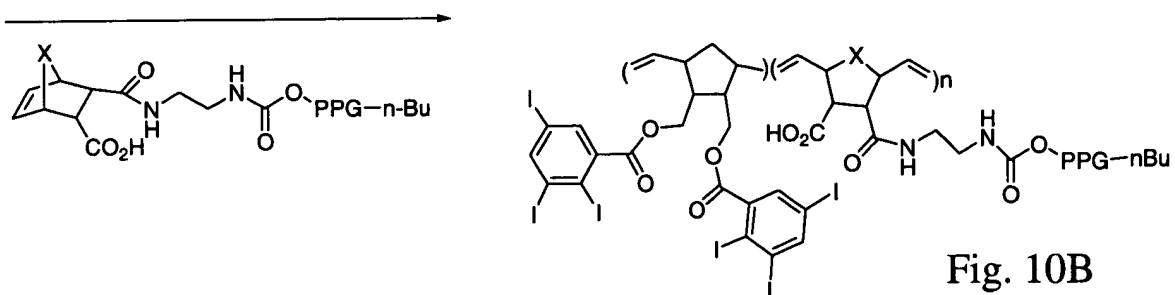


Fig. 10B

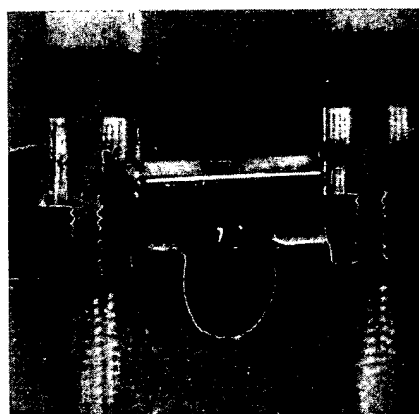


Fig. 11A

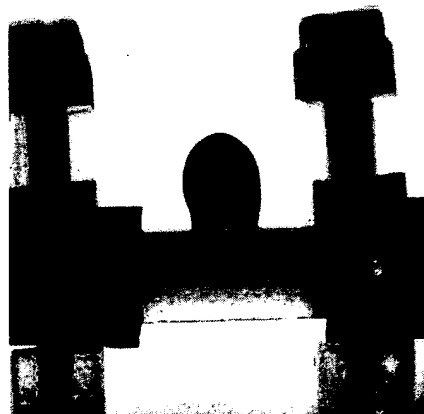


Fig. 11B

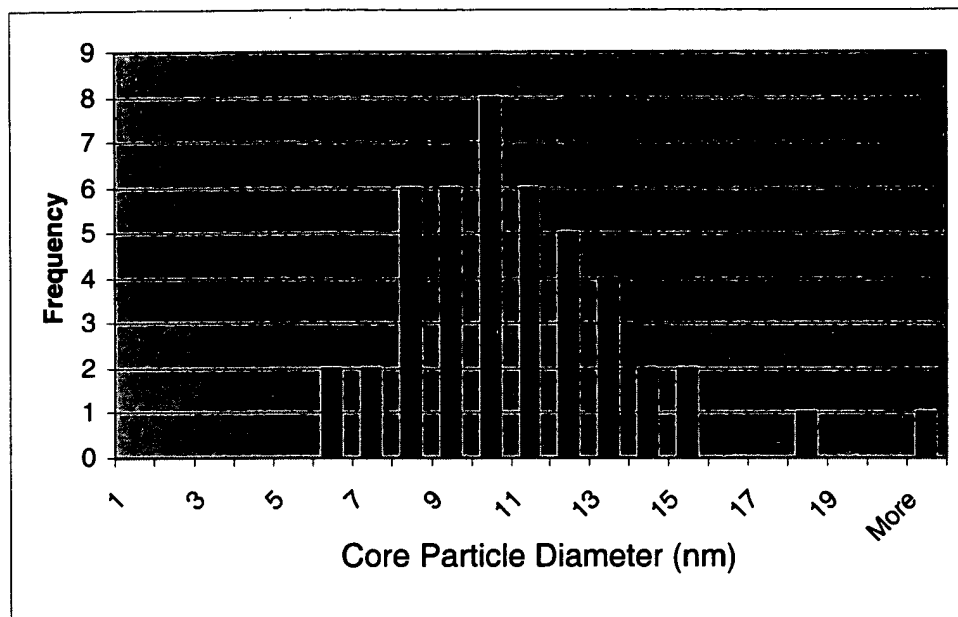


Fig. 13

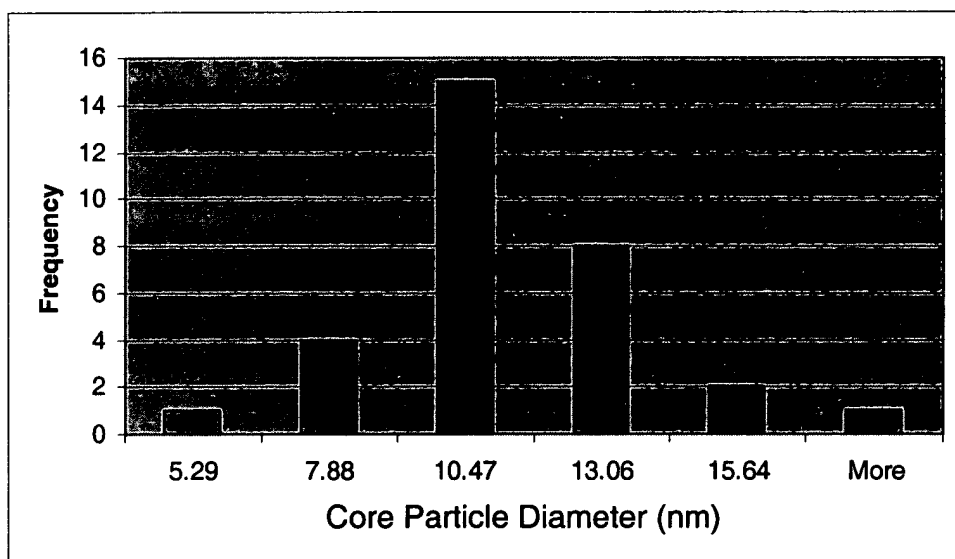


Fig. 12

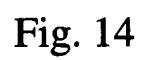


Fig. 14